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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/620,669	07/16/2003	Kathleen M. Hanley	LSBC-Hanley-0195	8535	
27860	7590 03/13/2006	EXAMINER			
LARGE SCALE BIOLOGY CORPORATION			KRUSE, DAVID H		
3333 VACA SUITE 1000	VALLEY PARKWAY		ART UNIT	PAPER NUMBER	
	E, CA 95688		1638	-	

DATE MAILED: 03/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)					
Office Action Summary		10/620,	669	HANLEY ET AL.					
		Examin	er	Art Unit					
		David H	• • • • • • • • • • • • • • • • • • • •	1638					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
WHIC - Exter after - If NC - Failu Any (ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE Management of time may be available under the provision: SIX (6) MONTHS from the mailing date of this com- period for reply is specified above, the maximum some to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF T s of 37 CFR 1.136(a). In no of munication. tatutory period will apply and y will, by statute, cause the a	THIS COMMUNICATION Event, however, may a reply be ting will expire SIX (6) MONTHS from pplication to become ABANDONE	N. mely filed n the mailing date of this c ED (35 U.S.C. § 133).					
Status									
1)	Responsive to communication(s) fil	ed on .							
2a)□	•	2b)⊠ This action is	non-final.						
3)[
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)⊠	4)⊠ Claim(s) <u>1-37</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	5) Claim(s) is/are allowed.								
6)□	Claim(s) is/are rejected.								
7)	7) Claim(s) is/are objected to.								
8)🖂	8) Claim(s) <u>1-37</u> are subject to restriction and/or election requirement.								
Applicati	on Papers								
9)□	The specification is objected to by the	ne Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	ınder 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:									
	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
* 0	application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
	ree the attached detailed Office action	on for a list of the cer	uned copies not receive	ea.					
Attach	val.								
Attachment 1) Notice	e of References Cited (PTO-892)		4) Interview Summary	(PTO 413)					
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (F		Paper No(s)/Mail Da	ate					
	nation Disclosure Statement(s) (PTO-1449 or · No(s)/Mail Date	PTO/SB/08)	5) Notice of Informal F 6) Other:	Patent Application (PTC	D-152)				

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-26 and 28-34, drawn to a method of reducing the amount of protein of interest cleaved by a hydrolase activity in a host cell and a host cell produced therefrom, classified in class 800, subclass 286, for example.
 - II. Claim 27, drawn to a polynucleotide comprising a substantially similar or complementary sequence of a coding sequence of a Nicotianalisin protease, classified in class 536, subclass 23.2, for example.
 - III. Claims 35 and 36, drawn to a composition of purified Nicotianalisin, classified in class 530, subclass 370, for example.
 - IV. Claim 37, drawn to a method of cleaving a polypeptide using aNicotianalisin, classified in class 435, subclass 23, for example.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case the polynucleotide of Group II can be used in a materially different process than that of Group I, such as in a

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DNA isolation method. In addition, the process of Group I can be practiced using a materially different product than that of Group II, such as a ribozyme as exemplified by claim 2 of Group I.

- 3. Inventions I and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions are unrelated because the product of Group III cannot be made using the process of Group I, which requires inhibition of expression.
- 4. Inventions I and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions are unrelated because the process of Group I has different starting materials, different method steps and different end products than the process of Group IV.
- 5. Inventions II and III and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions are unrelated because the polynucleotide is compositionally, structurally and functionally distinct from the polypeptide composition of Group III, and cannot be used in the process of Group IV.
- 6. Inventions III and IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the

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process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case the composition of Group III can be used in a materially different process than that of Group IV, such as in producing antibodies.

- 7. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, recognized divergent subject matter, and because the search required for one of the groups is not required for another, restriction for examination purposes as indicated is proper.
- 8. Applicant is advised that the reply to this requirement to be complete within one month (not less than 30 days) must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 9. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 10. The examiner has required restriction between product and process claims.

 Specifically Group I and II, and Group III and IV. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product

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claim will be rejoined in accordance with the provisions of MPEP § 821.04. **Process**claims that depend from or otherwise include all the limitations of the patentable

product will be entered as a matter of right if the amendment is presented prior to final
rejection or allowance, whichever is earlier. Amendments submitted after final rejection
are governed by 37 CFR § 1.116; amendments submitted after allowance are governed
by 37 CFR § 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR § 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. §§ 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

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Further, note that the prohibition against double patenting rejections of 35 U.S.C. § 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David H. Kruse, Ph.D. whose telephone number is (571) 272-0799. The examiner can normally be reached on Monday to Friday from 8:00 a.m. to 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg can be reached at (571) 272-0975. The fax telephone number for this Group is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group Receptionist whose telephone number is (571) 272-0547.

DAVID H. KRUSE, PH.D. PRIMARY EXAMINER

David H. Kruse, Ph.D. 7 March 2006

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12. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

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